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NOTE: OPEN problems denoted by asterisk (*) following problem number.

30-NOV-01 **AIRBORNE MISSILE LAUNCHER (LAU-127) ACTIVE**
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15560 OPEN |

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	MISSILE LAUNCHER	3820470-135	1440	01-378-8014	
	LAUNCHER, MISSILE	497HN0100-1	9999	99-999-9999	

EI CNTRL NO: 01-0043 **|**

PROB BRIEF : LAU-127; LAUNCHER FAILED TEST **|**

PROBLEM DESCRIPTION : Launcher fails test.

PREVENTIVE ACTION : Not determined.

CORRECTIVE ACTION : Not determined.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS	
OCCURRENCES:	VFA-122	CODR/EIR	R09355-01-0050	13FEB01	CLOSED	
	VFA-122	CODR/EIR	R09355-01-0049A	01FEB01	CLOSED	
	VFA-122	CODR	R09355-00-0275	04OCT00	CLOSED	
	VFA-27	CODR	R65185-00-0021	08SEP00	OPEN	
	NAS LEMOORE AIMD	PQDR II	N44321-96-0098	15MAY96	CLOSED	*
	USS INDEPENDENCE (CV-62)	EIR	V03362-94-0063	17MAY94	CLOSED	*
	USS LINCOLN (CVN-72)	PQDR I	V21297-93-0095	25OCT93	CLOSED	*
	USS LINCOLN (CVN-72)	PQDR I	V21297-93-0096	25OCT93	CLOSED	*

*** ACTION REPORTED IN PREVIOUS PUBLICATION**

ACTION : VFA-122 CODR/EIR R09355-01-0050 13FEB01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002733			
SUB-ASSY :	7002613-1	5340	01-381-0015	
	NOMEN: COVER, ACCESS			
FAILED PART:	3825025	5360	01-461-8243	
	NOMEN: SPRING ASSEMBLY			

DESCRIPTION:
During routine maintenance, when aft cover was removed, a noticeable crack was found around spring button. Further investigation revealed spring assembly part number 3825025 was broken and would not allow spring button to function properly.

PROBLEM NO: 15560 (Continued)

ACTION TAKEN:
27FEB01: Site visit by RTSC Indianapolis personnel to investigate problem.
05MAR01: Findings: Broken spring assemblies are a known problem, though not widespread. Most probable cause is fatigue induced over time by normal wear.
Conclusions: Broken spring assembly was due to fatigue. Recommend replacement of spring assembly P/N 3825025 and return to Ready for Issue status. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 05MAR01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 130130ZFEB01	PROBLEM REPORTED
	RTSC INDIANAPOLIS SITE VISIT 27FEB01	INTERIM RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 050850ZMAR01	CLOSING RESPONSE

ACTION : VFA-122 CODR/EIR R09355-01-0049A 01FEB01 CLOSED

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 4002949			
SUB-ASSY :	7002613-1	5340	01-381-0015	
	NOMEN: COVER, ACCESS			
FAILED PART:	3825025	5360	01-461-8243	
	NOMEN: SPRING ASSEMBLY			

DESCRIPTION:
During routine maintenance, when aft cover was removed, a noticeable crack was found around spring button. Further investigation revealed spring assembly part number 3825025 was broken and would not allow spring button to function properly.

ACTION TAKEN:
28FEB01: RTSC Indianapolis personnel investigating problem during on-site visit.
05MAR01: Findings: Broken spring assemblies are a known problem, though not widespread. Most probable cause is fatigue induced over time by normal wear.
Conclusions: Broken spring assembly was due to fatigue. Recommend replacement of spring assembly part number 3825025, and return to Ready for Issue status. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

PROBLEM NO: 15560 (Continued) |

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 05MAR01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 011300ZFEB01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 281544ZFEB01	INTERIM RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 050805ZMAR01	CLOSING RESPONSE

ACTION : VFA-122 CODR R09355-00-0275 04OCT00 CLOSED

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002773			
FAILED PART:	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			

DESCRIPTION:
While launcher was removed for maintenance it was noted that the forward cover (Technical Manual NAVAIR 11-75A-514 , WP 017 00, pg 4, index 6) had approximately 12 square inches of RAM coating/primer separating from metal.

ACTION TAKEN:
17OCT01: Repair and disposition instructions provided by RTSC Indianapolis. Repair launcher as required. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 17OCT01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 040130ZOCT00	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO PHONCON 17OCT01	PROBLEM CLOSING

ACTION : VFA-27 CODR R65185-00-0021 08SEP00 OPEN

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 4002387			
FAILED PART:	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 4002387			

PROBLEM NO: 15560 (Continued) |

DESCRIPTION:
The ground crew performed AIM-120 end to end test and the subject launcher caused substation fail on aircraft BUNO: 164010 station eight. A different launcher set was tested on same aircraft and substation resulting 4.0. The subject launcher was loaded on a different aircraft and tested with same results. The launcher was turned into AIMD for repair and was returned with zero discrepancies noted. The subject launcher was mounted on a known good LAU-115 and loaded on a different aircraft BUNO: 164025 station eight and checked 4.0. The AIM-120 was loaded on a launcher resulting in substation failure. Two different missiles were loaded with repeated substation failures on the subject launcher. CFA response was requested. The launcher was turned into the USS Kitty Hawk AIMD.

ACTION TAKEN:
17MAR01: Request for status.
27MAR01: Request prepare launcher as Engineering Investigation exhibit and ship to FST.
28APR01: Exhibit shipping data.

ACTION SUMMARY :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE REPORT	15DEC00	OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	VFA-27 MESSAGE 081800ZSEP00	PROBLEM REPORTED
	VFA-27 MESSAGE 171200ZMAR01	PROBLEM FOLLOW-UP
	RTSC INDIANAPOLIS MESSAGE 271206ZMAR01	RESPONSE TO PROBLEM
	VFA-27 MESSAGE 280258ZAPR01	EI EXHIBIT SHIPMENT

30-NOV-01 **AIRBORNE MISSILE LAUNCHER (LAU-127) ACTIVE**
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16105 CLOSED |

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	MISSILE LAUNCHER	3820470-135	1440	01-378-8014	

EI CNTRL NO: 01-0039 **|**

PROB BRIEF : LAU-127; RAIL ASSEMBLY GOUGED **|**

PROBLEM DESCRIPTION : Launcher rail assembly was gouged below the umbilical retention device assembly.

PREVENTIVE ACTION : None required.

CORRECTIVE ACTION : If gouge is within specifications, repair launcher as needed.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NSATS PAX RIVER	CODR	N39783-00-0018	06MAR01	CLOSED
	VFA-137	CODR	V55142-99-0076A	03NOV99	CLOSED *
	NAWC CHINA LAKE	CODR	N60530-95-0110	27DEC95	CLOSED *

*** ACTION REPORTED IN PREVIOUS PUBLICATION**

ACTION : NSATS PAX RIVER CODR N39783-00-0018 06MAR01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 5000138			
SUB-ASSY :	7002738-1	1440	01-462-1869	
	NOMEN: LAUNCHER SUBASSEMBLY			
FAILED PART:	7002739-1	1420	01-378-6349	
	NOMEN: SUBASSY, LAUNCHER			

DESCRIPTION:
LAU-127A/A launcher rail cracked in flight while carrying CATM-9L on F-18E station 1.

ACTION TAKEN:
13MAR01: Ship launcher to RTSC Indianapolis for Engineering Investigation.
04SEP01: Findings: The front snubber ramps were discolored with a dark film that could be rubbed off. There was significant wear in the rail track from the front hanger on the side that cracked. It appeared to be deeper than what was on the other side. There was significant wear on the end of the snubber on the side opposite of the crack. The aft dampener had a crack across one of the cross members. Two screws on the side of the aft dampener had torque

PROBLEM NO: 16105 (Continued) |

levels measuring 30 to 50 IN-LBS. Most measured 100 IN-LBS, well above the specified torque of 70 10 IN-LBS. Three screws on the under side measured 20 - 25 IN-LBS. The specified torque for these screws is 70 10 IN-LBS.
All torque striping on all screws was intact. There was no wear in the rail track at the aft hanger location. It appeared as though the left front snubber had, at one time, run out of travel while a missile was being flown which was evidenced by wear on the ramp. This is on the opposite side from where the crack occurred. The launcher was disassembled, the empty rail was dimensionally measured for straightness and rail slot width. No anomalies were found, although the slot width measured high at 0.270 inches. The requirement is 0.262 0.010 inches. Flatness of the bottom surface of the rail in the unrestrained condition is 0.109 inches. This rail measured 0.033 inches. The material type and heat treat were within specification.
Conclusions: Analysis of the failure indicates high cycle fatigue. There is evidence that the front dampener ramps may have been lubricated at one time. In effect, if this were the case, the dampener would not hold the missile hanger in place, thereby imparting higher loads into the rail track. A worn missile hanger, along with the rail wear and large slot size, could allow the front dampener to run out of travel and not be able to dampen the missile movement.
Recommendations: Ensure the dampener ramps and dampeners are not lubricated. Ensure that aft dampener assembly mounting screws are torqued properly. Visually check front missile hangers for excessive wear. NSATS Patuxent River's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 04SEP01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NSATS PAX RIVER MESSAGE 062010ZMAR01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 131451ZMAR01	INTERIM RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 041435ZSEP01	CLOSING RESPONSE

30-NOV-01 **AIRBORNE MISSILE LAUNCHER (LAU-127) ACTIVE**
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16631 **CLOSED**

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	MISSILE LAUNCHER	3820470-135	1440	01-378-8014	
	LAUNCHER, MISSILE	497HN0100-1	9999	99-999-9999	

EI CNTRL NO: 00-0012

PROB BRIEF : LAU-127; FWD DAMPNER WOULD NOT RETRACT TO DOWNLOAD MISSILE

PROBLEM DESCRIPTION : During downloading operation, missile would not travel aft due to the forward dampener not retracting.

PREVENTIVE ACTION : None determined.

CORRECTIVE ACTION : None determined.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS	
OCCURRENCES:	VFA-115	CODR	R09604-01-0026A	24JUL01	CLOSED	|
	VFA-122	CODR/EIR	R09355-00-0171	12MAY00	CLOSED	|
	VFA-122	CODR/EIR	R09355-00-0172	12MAY00	CLOSED	|
	VX-9	CODR	R55646-99-0044	04OCT99	CLOSED *	|
	VX-9	CODR	R55646-99-0045	04OCT99	CLOSED *	|
	VX-9	CODR	R55646-99-0047	04OCT99	CLOSED *	|

*** ACTION REPORTED IN PREVIOUS PUBLICATION**

ACTION : VFA-115 CODR R09604-01-0026A 24JUL01 CLOSED |

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	497HN0100-1			|
	NOMEN: LAUNCHER, MISSILE			
	S/N: UNKNOWN			
FAILED PART:	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			

DESCRIPTION:
Ordnance branch personnel received launcher from AIMD and installed on aircraft. Following release and control test by avionics personnel, station was loaded in accordance with applicable technical publication. During postflight weapon download, discovered CATM-9M stuck to LAU-127B/A launcher. AIMD personnel removed top and bottom mech assembly screws on launcher allowing ordnance personnel to download missile. NAWC DET Lemoore FWST personnel examined launcher rail and missile hangers for damage with no discrepancies noted. Launcher was turned in to AIMD for ECP-0019 incorporation. |

PROBLEM NO: 16631 (Continued)

ACTION TAKEN:
30JUL01: Recommend action be taken to ensure that until the arrival of LAU-127C/A launchers for fleet use on F/A-18E/F aircraft, ordnance personnel must ensure that AIM/CATM-9 missiles are only loaded on LAU-127A/A and LAU-127B/A launchers with ECP-0019 modifications incorporated. VFA-115's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 30JUL01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-115 MESSAGE 241731ZJUL01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 30JUL01	PROBLEM CLOSING

ACTION : **VFA-122** **CODR/EIR R09355-00-0171** **12MAY00 CLOSED**

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002970			
SUB-ASSY :	7002760-7	1440	01-408-6641	
	NOMEN: DETENT ASSEMBLY			
FAILED PART:	7002769-1	5340	01-332-2343	
	NOMEN: DAMPNER, FORWARD			

DESCRIPTION:
During download of CATM-9M missile from FA-18F (BUNO 165670) station one LAU-127B/A, forward bottom dampner of launcher would not disengage from missile hanger to facilitate download of missile. In an attempt to free forward bottom dampner with screwdriver the launcher rail was damaged. Missile was removed by loosening the four retention locking mechanism screws to relieve tension on the dampner. This launcher mated with missile was flown on two flights for 2.9 flight hours. Removed and replaced LAU-127B/A. Request engineering investigation. CFA response requested.

ACTION TAKEN:
23MAY00: Request ship LAU-127B/A, S/N 4002970, as Engineering Investigation exhibit. Ship via fastest traceable means to Raytheon Technical Services Company.
31MAY00: LAU-127 launcher shipped 000525 under TCN N630420146B959.
15FEB01: ECP under development to correct problem. This is closing action.

PROBLEM NO: 16631 (Continued)

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 15FEB01 |

REFERENCES : **IDENTIFICATION**	**REFERENCE BRIEF**	
VFA-122 MESSAGE 120130ZMAY00	PROBELM REPORTED	|
RTSC INDIANAPOLIS/CNPCOO MESSAGE 231141ZMAY00	INITIAL RESPONSE	|
NAS LEMOORE AIMD MESSAGE 310708ZMAY00	AIRCRAFT ARMAMENT EQUIPMENT SHIPMENT	
RTSC INDIANAPOLIS CFA REVIEW 15FEB01	REPORT CLOSING	|

ACTION : VFA-122 CODR/EIR R09355-00-0172 12MAY00 CLOSED |

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	497HN0100-1			|
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002973			
SUB-ASSY :	7002760-7	1440	01-408-6641	
	NOMEN: DETENT ASSEMBLY			
FAILED PART:	7002769-1	5340	01-332-2343	
	NOMEN: DAMPNER, FORWARD			

DESCRIPTION:
During download of CATM-9M missile from FA-18F (BUNO 165672) sta-1 LAU-127B/A, forward bottom dampner of launcher would not disengage from missile hanger to facilitate download of missile. In an attempt to free forward bottom dampner with screwdriver the launcher rail was damaged. Missile was removed by loosening the four retention locking mechanism screws to relieve tension on the dampner. This is the second occurrence of this deficiency in the first 48 hours of flying CATM-9 missiles. Launcher mated with missile was flown on four flights for 6.2 flight hours. Removed and replaced LAU-127B/A. |

ACTION TAKEN:
23MAY00: Request ship LAU-127B/A, S/N 4002973, as Engineering Investigation exhibit. Ship via fastest traceable means to Raytheon Technical Services Company. |
31MAY00: LAU-127 launcher shipped 000525 under TCN N630420146B959.
15FEB01: ECP under development to correct problem. VFA's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 15FEB01 |

PROBLEM NO: 16631 (Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 121141ZMAY00	INITIAL RESPONSE
	VFA-122 MESSAGE 120230ZMAY00	PROBLEM REPORTED
	NAS LEMOORE AIMD MESSAGE 310708ZMAY00	AIRCRAFT ARMAMENT EQUIPMENT SHIPMENT
	RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 15FEB01	REPORT CLOSING

PROBLEM NO: 16632 CLOSED |

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	MISSILE LAUNCHER	3820470-135	1440	01-378-8014	
	LAUNCHER, MISSILE	497HN0100-1	9999	99-999-9999	

EI CNTRL NO: 01-0044 **|**

PROB BRIEF : LAU-127; NITROGEN BOTTLE UNSECURED **|**

PROBLEM DESCRIPTION : While replacing nitrogen bottle, nitrogen receiver assembly inside of launcher dislodged, and would not allow the removal of the bottle.

PREVENTIVE ACTION : Replace nitrogen control valve mounting screws with P/N NAS1101-3-10 (NSN 5305-00-819-1115) available from supply system. Return launcher to Ready-For-Issue status. NAVAIR 11-75A-514, IRAC Number 03, para. 3n, authorized technical manual change

CORRECTIVE ACTION : Problem caused by loose nitrogen control valves. ECP J-042 incorporated resolution for valve loosening discrepancy with longer mounting screws. Modification incorporated in lot 9 and subsequent lot production launchers.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS	
OCCURRENCES:	VFA-122	CODR	R09355-01-0185	21JUN01	CLOSED	
	VFA-122	CODR/EIR	R09355-01-0124	29MAR01	CLOSED	
	VFA-122	CODR/EIR	R09355-01-0086	07MAR01	CLOSED	
	VFA-122	CODR	R09355-01-0043	05FEB01	CLOSED	
	VX-9	CODR	R55646-99-0048	04OCT99	CLOSED	*
	VX-9	CODR	R55646-99-0049	04OCT99	CLOSED	*
	VX-9	CODR	R55646-99-0050	04OCT99	CLOSED	*

*** ACTION REPORTED IN PREVIOUS PUBLICATION**

ACTION : VFA-122 CODR R09355-01-0185 21JUN01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 4002585			
FAILED PART:	654316-3	4820	01-382-4967	
	NOMEN: VALVE, REGULATING			

DESCRIPTION:
During aircraft preflight preparation of LAU-127A, abnormal movement of the nitrogen receiver was discovered. Utilizing correct procedures, the crew member attempted to rotate the receiver counterclockwise. No resistance was noted during the removal procedure. Further investigation revealed the control valve assembly mounting screws had broken off, allowing the control valve to

PROBLEM NO: 16632 (Continued) |

separate from mounting position on launcher. Engineering investigation requested, CFA response required. The nitrogen receiver is being held for investigation at AIMD NAS Lemoore. Awaiting CFA disposition instructions

ACTION TAKEN:
25JUN01: Background: abnormal movement of nitrogen receiver during aircraft preflight preparation of the LAU-127A/A. Further investigation revealed the control valve screws had broken off and/or backed out allowing the control valve to separate from mounting position.
Findings: The screws in the control valve were not correct. The screws were too short.
Conclusions: The control valve breaking loose was due to the short screws used to secure the control valve mounting plate to the aft dampener. Recommend repair launcher at I-level and return to service. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 25JUN01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 210630ZJUN01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 250859ZJUN01	PROBLEM CLOSING

ACTION : VFA-122 CODR/EIR R09355-01-0124 29MAR01 CLOSED

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002643			
FAILED PART:	654316-3	4820	01-382-4967	
	NOMEN: VALVE, REGULATING			

DESCRIPTION:
Abnormal movement of nitrogen receiver was reported during aircraft preflight preparation of the LAU-127B/A. Further investigation revealed the control valve assembly mounting screws had broken off and/or backed out allowing the control valve to separate from mounting position.

ACTION TAKEN:
16APR01: Findings: The screws in the control valve were not correct. The screws were too short and should have been replaced by ECP042. Conclusions: Breaking loose of the control valves was due to the

PROBLEM NO: 16632 (Continued)

wrong screws being used to secure the control valve mounting plate to the aft dampener.
Recommend I-Level repair of launcher and return to service. Refer to launcher technical manual NAVAIR 11-75A-514 for correct valve mounting screw part numbers. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 16APR01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 291600ZMAR01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 161301ZAPR01	PROBLEM CLOSING

ACTION : VFA-122 CODR/EIR R09355-01-0086 07MAR01 CLOSED

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: 1002109			
FAILED PART:	654316-3	4820	01-382-4967	
	NOMEN: VALVE, REGULATING			

DESCRIPTION:
Abnormal movement of nitrogen receiver was reported during aircraft preflight preparation of the LAU-127B/A. Further investigation revealed the control valve assembly mounting screws had broken off and/or backed out allowing the control valve to separate from mounting position.

ACTION TAKEN:
19MAR01: Ship control valve assembly and screws to RTSC Indianpolis for engineering analysis.
16APR01: Findings: The screws in the control valve were not correct. The screws were too short and should have been replaced by ECP042. Conclusions: Breaking loose of the control valves was due to the wrong screws being used to secure the control valve mounting plate to the aft dampener.
Recommend I-Level repair of launcher and return to service. Refer to launcher technical manual NAVAIR 11-75A-514 for correct valve mounting screw part numbers. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 16APR01

PROBLEM NO: 16632 (Continued) |

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 071300ZMAR01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 190950ZMAR01	INTERIM RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 161301ZAPR01	PROBLEM CLOSING

ACTION : VFA-122 CODR R09355-01-0043 05FEB01 CLOSED

	PART/DOC. NO.	**FSC**	**NIIN**	**NALC**
END ITEM :	497HN0100-1			
	NOMEN: LAUNCHER, MISSILE			
	S/N: 4002795			
FAILED PART:	654316-3	4820	01-382-4967	
	NOMEN: VALVE, REGULATING			
	S/N: 6594			

DESCRIPTION:
During aircraft preflight preparation of the LAU-127B/A ,abnormal movement of the nitrogen receiver was evident. Utilizing procedures, crew member attempted to rotate receiver counterclockwise. No resistance was noted during removal procedures. The crew member then pulled receiver aft, removing the receiver with control valve assembly attached. Further investigation revealed control valve assembly mounting screws had broken allowing the control valve to separate from mounting position on the launcher. CFA response was requested. Holding for investigation at AIMD NAS Lemoore, and awaiting disposition instructions.

ACTION TAKEN:
28FEB01: It was reported that during aircraft preflight preparation, abnormal movement of the nitrogen receiver on launcher Serial Number 4002795 was noted. The crew member attempted to rotate the receiver counterclockwise. There was no resistance noted. The receiver was then pulled aft, removing the receiver with the control valve. Further investigation revealed the valve assembly mounting screws had broken allowing the valve to separate from the receiver. VFA-122 reported a crew member removed the aft cover of launcher, serial number 4002733 and noted the release button on the cover was wedged and would not retract. Further investigation revealed the spring assembly was broken and preventing retraction. Raytheon Technical Services Company, Indianapolis personnel to be on site 27 February through 1 March and will conduct an investigations on the incidents. Findings and recommendations will be forwarded via naval message upon conclusion of this investigation.
05MAR01: During the inspection of the control valve, it was evident that the nitrogen bottle had been cross-threaded. It was also noted that the attaching screws were not the correct length. In

PROBLEM NO: 16632 (Continued) |

conclusions, the cross threaded bottle required more torque than normal to remove; this extra torque pulled the short incorrect screws out and left the assembly loose in the launcher. Recommend repair launcher and return to service. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	RTSC INDIANAPOLIS	INVESTIGATE		COMPLETE 07MAR01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	VFA-122 MESSAGE 051330ZFEB01	PROBLEM REPORTED
	RTSC INDIANAPOLIS MESSAGE 280812ZFEB01	PRELIMINARY RESPONSE
	RTSC INDIANAPOLIS MESSAGE 051207ZMAR01	PROBLEM CLOSING

30-NOV-01 **AIRBORNE MISSILE LAUNCHER (LAU-127) ACTIVE**
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 17010 **CLOSED |**

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	LAUNCHER, MISSILE	497HN0100-1	9999	99-999-9999	

EI CNTRL NO: 01-0042 **|**

PROB BRIEF : LAU-127: WEARING/CHAFFING OF MISSILE LAUNCHER **|**

PROBLEM DESCRIPTION : Excessive metal wearing/chaffing at hanger contact points and launcher rails.

PREVENTIVE ACTION : None determined.

CORRECTIVE ACTION : None determined.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	VFA-122	CODR	R09355-00-0012	10JAN01	CLOSED

ACTION : VFA-122 CODR R09355-00-0012 10JAN01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	497HN0100-1 **NOMEN:** LAUNCHER, MISSILE **S/N:** 1006082			
SUB-ASSY :	7002530-4 **NOMEN:** DAMPER ASSEMBLY	5340	01-382-3832	
FAILED PART:	3825154 **NOMEN:** DAMPER, AFT	5340	01-216-6914	

DESCRIPTION:
During routine maintenance, abnormal wear was noted on the LAU-127 missile launcher rail and at the contact points of the missile hanger. Further investigation revealed excessive wear on the launcher forward and aft dampners. Request engineering investigation. CFA response was requested. Holding for investigation at VFA-122 ordnance work center and awaiting CFA disposition instructions.

ACTION TAKEN:
23JAN01: Message readdressal.
28FEB01: VFA-122 reported abnormal wear noted on LAU-127B/A missile launcher rail at the contact points of missile hanger. Further investigation revealed excessive wear noted on launcher fwd and aft dampners. An on-site inspection of the discrepant LAU-127 launcher was performed by Raytheon Technical Services Company engineers. It was determined that the missile rail wear and wear of dampners are within tolerance. Recommend return launcher to service and track for

further wear and degradation. VFA-122's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY :	**ACTIVITY/CODE**	**ASSIGNMENT**	**DUE DATE**	**STATUS**
	RTSC INDIANAPOLIS	CLOSE PROBLEM		COMPLETE 28FEB01

REFERENCES :	**IDENTIFICATION**	**REFERENCE BRIEF**
	VFA-122 MESSAGE 100230ZJAN01	PROBLEM REPORTED
	NAWC PT MUGU MESSAGE 230426ZJAN01	MESSAGE READDRESSAL
	RTSC INDIANAPOLIS MESSAGE 282045ZFEB01	PROBLEM CLOSING

30-NOV-01 **AIRBORNE MISSILE LAUNCHER (LAU-127) ACTIVE**
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 17034 **CLOSED** |

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	MISSILE LAUNCHER	3820470-135	1440	01-378-8014	

EI CNTRL NO: 01-0045 |

PROB BRIEF : LAU-127; NITROGEN RECEIVER FAILURE |

PROBLEM DESCRIPTION : Nitrogen receiver seal cap failed.

PREVENTIVE ACTION : Not Determined.

CORRECTIVE ACTION : None Determined.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAF ATSUGI	CODR/EIR	N62507-00-0008	24AUG00	CLOSED

ACTION :	**NAF ATSUGI**	**CODR/EIR**	**N62507-00-0008**	**24AUG00**	**CLOSED**	

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	3820470-135	1440	01-378-8014	
	NOMEN: MISSILE LAUNCHER			
	S/N: UNKNOWN			
FAILED PART:	9484901	8120	01-446-5116	
	NOMEN: CYLINDER, COMPRESSED			

DESCRIPTION:
Report states nitrogen receiver with MMF nitrogen inlet pressure at 3500 PSI and manifold pressure at 3200 PSI, technicians proceeded to charge nitrogen receiver. After approximately 10 seconds a loud bang followed by a loud, short hiss was heard technician discovered that the seal cap end had been blown off the seal valve.

ACTION TAKEN:
12SEP00: Ship nitrogen receiver as exhibit to RTSC Indianapolis for engineering evaluation.
08FEB01: Findings: The filter barrel was difficult to remove, and had to be forced loose. The filter barrel is part of the mechanism that opens and closes the valve. When the bottle is screwed into a control valve a probe on the control valve pushes the filter barrel housing, which in turn opens the poppet valve. Normally, the filter barrel should slide in and out of the seal valve housing with no resistance. When the bottle is unscrewed from the launcher control valve, the seal valve returns to the closed position. On this unit the filter barrel was stuck, leaving the valve in the open position. Conclusion: It is not possible for the barrel to have gotten stuck

PROBLEM NO: 17034 (Continued) |

due to shipping, handling, disassembly or the failure of another part. A dimensional check of the seal valve housing showed a smaller than specified diameter near the bottom of the bore. Machining of the seal valve housing was not done properly, causing the filter barrel to bind. With the barrel stuck, the valve was open while the bottle was being filled. It appears that the protective end cap formed a temporary seal as the pressure built up in the bottle, until the cap fractured
Recommendations: When a bottle is removed from a launcher, there is a momentary discharge of nitrogen. If the bottle continues to discharge, the valve is stuck open. Since this is a manufacturing defect, it is possible that other valves from the same lot could have the same problem. If the problem reoccurs, discard the valve and install a new one. NAF Atsugi's participation in AWCAP is greatly appreciated. Closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 08FEB01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAF ATSUGI MESSAGE 240144ZAUG00	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 120939ZSEP00	INITIAL RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 080946ZFEB01	PROBLEM CLOSING